BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work : Development of Doddabommasandra Lake, Phase 2, Bangalore.

Modified Bill of Quantities

Item Code	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (PWD BCSR 2014-15, P-5 I-2.3) Excavation for foundation of buildings, water supply sanitary lines, electrical conduits either in pits or in trenches where excavation width is above 600 mm below 1.5 mtrs. add 25% extra and for width upto 600 mm add 50% extra for respective rates due to restricted conditions.As directed by the engineer in charge	Cum	0.00	270.00	Rupees two hundred and seventy only
2	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification As directed by the engineer in charge	Cum	136.47	5575.00	Rupees five thousand five hundred and seventy five only
3	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer- in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) As directed by the engineer in charge	Mtr	0.00	1200.00	Rupees one thousand two hundred only
4	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. As directed by the engineer in charge	Mtr	0.00	360.00	Rupees three hundred and sixty only

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Executive Engineer-2
Lakes, BBMP

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Code	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
5	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint As directed by the engineer in charge	Sqm	0.00	750.00	Rupees seven hundred and fifty only
6	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, watersupply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil; clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1 (a) / 2.3.5 (P W D BCSR 2014-15, P-5 I-2.3) Note;- Excavation for foundation of buildings, water supply sanitary lines, electrical conduits either in pits or in trenches where excavation width is above 600 mm below 1.5 mtrs. add 25% extra As directed by the engineer in charge	cum	0.00	226.00	Rupees two hundred and twenty six only
7	KSRB 2.8 : Providing and Filling in foundation with granite/trap broken metal 100 mm and down size,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications,As directed by the engineer in charge	cum	0.00	2042.00	Rupees two thousand forty two only
8	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification As directed by the engineer in charge	cum	157.65	5100.00	Rupees five thousand one hundred only
9	KSRB 5.2-3:Providing and constructing granite / trap / basalt size stone masonry in foundation CM 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m apart in eachcourse including cost of all materials, labour,curing complete as per specifications.Specification As directed by the engineer in charge	cum	454.80	4000.0	Rupees four thousand only
		cum	627.82	4314.03	Rupees four thousand three hundred and fourteen and three paisa only
10	KSRB 5.3-3:Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m apart in eachcourse including cost of all materials, labour,scaffolding, curing complete as per specifications. Specification As directed by the engineer in charge	cum	0.00	4800.00	Rupees four thousand eight hundred only

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Code	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
11	KSRB 2-3:Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with alead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specifications As directed by the engineer in charge	cum	93.00	124.0	Rupees one hundred and twenty four only
12	KSRB 6-6.2 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 75 (Machine moulded Wirecut bricks) with cement mortar 1 :6 for basement and superstructure with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 complete As directed by the engineer in charge	cum	0.00	9946.00	Rupees nine thousand nine hundred and forty six only
13	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. As directed by the engineer in charge	cum	0.00	6310.00	Rupees six thousand three hundred and ten only
14	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification As directed by the engineer in charge	cum	0.00	6453.00	Rupees six thousand four hundred and fifty three only
15	Providing and casting reinforced cement concrete racks with design mix M20, granite or trap jelly 12mm and down size 5 cms thick and below with reinforcements of 6mm dia MS bars at 15 cms. Centre to centre for main reinforcement and at 30cms centre to centre for distribution including supports wherever necessary with burnt brick in CM 1:8 and plastered with CM 1:4 or composite mortar 1:6 including centring, form work, curing etc., complete (inclusive of cost of steel and fabrication charges). As directed by the engineer in charge	sqm	0.00	942.00	Rupee nine hundred and forty two only

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Lakes, BBMP

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Code	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
16	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specificaitons. Specification No.As directed by the engineer in charge	sqm	0.00	271.00	Rupees two hundred and seventy one only
17	KSRB 4-6.15 : Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for where inclination to horizontal plane exceeds 30 degree (where shuttering may be provided both on underside and upper side if required) including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 etc., (P W D BCSR 2014-15, P-17 I-4.42)	sqm	0.00	676.00	Rupees six hundred and seventy six only
18	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specificaitons. Specification As directed by the engineer in charge	sqm	0.00	727.00	Rupees seven hundred and twenty seven only
19	KSRB 4-9.2: Providing TMT bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding whereever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification As directed by the engineer in charge	tonne	0.00	81515.00	Rupees eighty one thousand five hundred fifteen only
20	KSRB15-3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.As directed by the engineer in charge	sqm	0.00	165.00	Rupees one hundred and sixty five only
21	KSRB15-3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. etc., As directed by the engineer in charge	sqm	0.00	194.00	Rupees one hundred and ninety four only
22	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining including cost of materials, labour, curing complete as per specifications As directed by the engineer in charge	sqm	0.00	97.00	Rupees ninety seven only
23	KSRB 9.4-5 : Providing Red Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. As directed by the engineer in charge	cum	0.00	65355.00	Rupees sixty five thousand three hundred and fifty five only

Contractor

Executive Engineer-2
Lakes, BBMP

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Sl. No.	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
24	KSRB 7.4 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, using M.S. flats 30x6 mm for diagonal braces and central cross pieces 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications.1 double leaf door of size 2.4x2.4mSpecification As directed by the engineer in charge	sqm	0.00	2500.00	Rupees two thousand five hundred only
25	KSRB 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery complete as per specifications. As directed by the engineer in charge	sqm	0.00	3412.00	Rupees three thousand four hundred and twelve only
26	KSRB 9-13-3 : Providing and fixing in position shutters for doors made out of Honne wood styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 18mm thick of exterior grade plain particle board including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification As directed by the engineer in charge	sqm	0.00	3705.00	Rupees three thousand seven hundred and five only
27	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications As directed by the engineer in charge	sqm	0.00	29.00	Rupees twenty nine only
28	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. As directed by the engineer in charge	sqm	0.00	85.00	Rupees eighty five only

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ode	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
29	KSRB 15-17.2 : Applying priming coat over new wood surface and / or wood based surface after brushing with wood primer pink paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.As directed by the engineer in charge	sqm	0.00	31.00	Rupees thirty one only
30	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. As directed by the engineer in charge	sqm	0.00	88.00	Rupees eighty eight only
31	Solid Panel PVC Door Shutter : Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. As directed by the engineer in charge	sqm	0.00	3558.00	Rupees three thousand five hundred and fifty eight only
32	Solid PVC Door Frame : Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm lo ng brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. As directed by the engineer in charge	sqm	0.00	583.00	Rupees five hundred and eighty three only
33	KSRB 14.7-2 : Providing and laying red oxide flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with 1:3 cement mortar mixed with red oxide (using 3.5 kg of red oxide per 50 kg of cement) finished with floating coat of neat cement mixed with red oxide (mix of same proportion) , including cost of materials, labour, curing, complete as per specifications. Specification As directed by the engineer in charge	sqm	0.00	592.00	Rupees five hundred and ninety two only

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ode	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
34	KSRB 14-17.1 : Providing skirting, dado, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification As directed by the engineer in charge	sqm	0.00	955.00	Rupees nine hundred and fifty five only
35	KSRB15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, as per specifications. etc., As directed by the engineer in charge	sqm	0.00	70.00	Rupees seventy only
36	KSRB 15-16.2 : Providing and finishing external walls in one coat with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.As directed by the engineer in charge	sqm	0.00	35.00	Rupees thirty five only
37	KSRB 10-2 : Providing and laying in position Yelahanka tiles of size 250 x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of materials, labour complete as per specifications. Specification As directed by the engineer in charge	sqm	0.00	781.00	Rupees seven hundred and eighty one only
38	KSRB 14.10-3 : Providing flooring with 20mm thick polished Cadapa slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification As directed by the engineer in charge	sqm	0.00	1154.00	Rupees one thousand one hundred and fifty four only
39	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) (P W D BCSR 2014-15, P-93 I-13.86.1)15 mm nominal OD pipes As directed by the engineer in charge	mtr	0.00	146.00	Rupees one hundred and forty six only

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Code	Description	Unit	Approved Quantity	Approved Rate in Figures (in Rs.)	Rate in Words (in Rupees)
40	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) (P W D BCSR 2014-15 P-93 I-13.86.3) 25 mm nominal OD pipes.As directed by the engineer in charge	mtr	0.00	281.00	Rupees two hundred and eighty one only
41	KSRB 13-6.1-1 Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications . As directed by the engineer in charge	each	0.00	245.00	Rupees two hundred and forty five only
42	KSRB 13-6.2-1 Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. As directed by the engineer in charge	each	0.00	180.00	Rupees one hundred and eighty only
43	KSRB 11-7.1: Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I/M.S brackets, standard flush pipe and C.P. brass spreaders ewith brass unions and G.I. clamps complete painting of fittings and brackts, cutting and making good the wall and floor whereever required, including cost of materials, labour complete as per specifications . As directed by the engineer in charge	Unit	0.00	3161.00	Rupees three thousand one hundred and sixty one only
44	KSRB 11-2: Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrsts, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications .As directed by the engineer in charge	pan	0.00	4794.00	Rupees four thousand seven hundred and ninety four only
45	KSRB 11-11.4 : Providing and fixing white vitreous china clay, flat back wash basin size 550 x 400mm with a single 15 mm C.P. brass pillar tap with C.I/M.S brackets, 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. As directed by the engineer in charge	Unit	0.00	3008.00	Rupees three thousand eight only
46	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete. (External work) As directed by the engineer in charge	mtr	0.00	2674.00	Rupees two thousand six hundred and seventy four only

Executive Engineer-2
Lakes, BBMP

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